



# *OPTICAL POLYMERS CATALOG 2017*

## **SPECIFIC POLYMERS OVERVIEW:**

SPECIFIC POLYMERS is a company specialized in the synthesis of polymer additives bearing heteroelements; mainly phosphorus, silicon and fluorine. Our products are intended for research laboratories in surface modifications (glass, metals, metal oxides, nanoparticles, plastics, etc.) for applications in pharmaceuticals, cosmetics, water treatment, metal extraction, concrete, adhesion, anticorrosion, etc.

Using our expertise in the field of polymer chemistry, especially in the chemistry of phosphorus, silicon and phosphorus, we propose novel polymers which are often supplied exclusively by our company.

These polymers present physico-chemical properties such as:

- Adhesion onto metal, anticorrosion, complexation of heavy metals, fire-proofing, etc.
- Hydrophoby – Oleophoby – Chemical inertness – Thermal stability, etc.

Our services including also custom synthesis and research contract provide our specific expertise on functional polymers to support Research programs.



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## NLO MONOMERS / POLYMERS

### □ NLO MONOMERS

<b>SP-NLO-M-001</b>	Disperse Red 1 methacrylate [103553-48-6]	
<b>SP-NLO-M-002</b>	Disperse Red 13 methacrylate [82701-58-4]	
<b>SP-NLO-M-003</b>	Disperse Red 1 acrylate [13695-46-0]	
<b>SP-NLO-M-004</b>	Disperse Orange 3 methacrylamide [58142-15-7]	
<b>SP-NLO-M-005</b>	Disperse Orange 3 acrylamide [150375-01-2]	

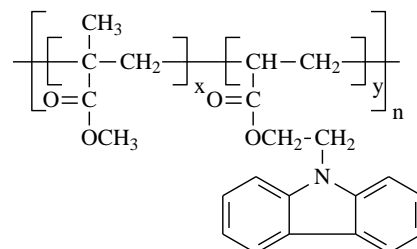
### □ NLO POLYMERS

<b>SP-NLO-P-001</b>	Poly(Disperse Red 1 methacrylate) [139096-37-0] (C <sub>20</sub> H <sub>22</sub> N <sub>4</sub> O <sub>4</sub> ) <sub>n</sub>	
<b>SP-NLO-P-002</b>	Poly(Disperse Red 13 methacrylate) [161565-43-1] (C <sub>20</sub> H <sub>21</sub> ClN <sub>4</sub> O <sub>4</sub> ) <sub>n</sub>	



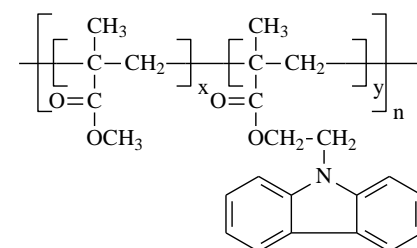
**SP-NLO-P-003**

Poly[(methylmethacrylate)-co-(9H-carbazole-9-ethylacrylate)]  
*[not identified]*  
 $[(C_5H_8O_2)_x(C_{17}H_{15}NO_2)_y]_n$



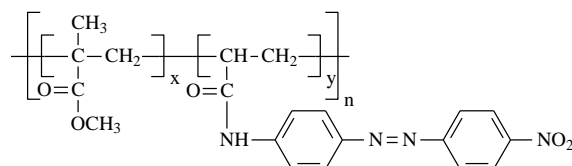
**SP-NLO-P-004**

Poly[(methylmethacrylate)-co-(9H-carbazole-9-ethylmethacrylate)]  
*[not identified]*  
 $[(C_5H_8O_2)_x(C_{18}H_{17}NO_2)_y]_n$



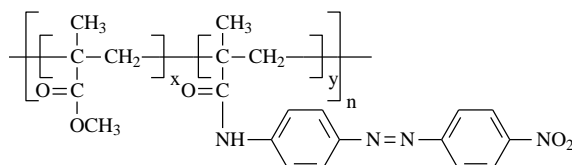
**SP-NLO-P-005**

Poly[(methylmethacrylate)-co-(Disperse Orange 3 Acrylamide)]  
*[not identified]*  
 $[(C_5H_8O_2)_x(C_{15}H_{12}N_4O_3)_y]_n$



**SP-NLO-P-006**

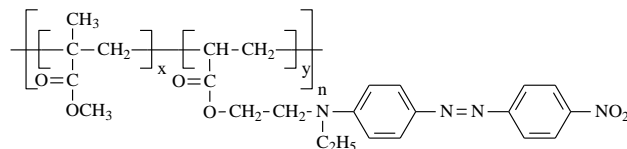
Poly[(methylmethacrylate)-co-(Disperse Orange 3 Methacrylamide)]  
*[not identified]*  
 $[(C_5H_8O_2)_x(C_{16}H_{14}N_4O_3)_y]_n$





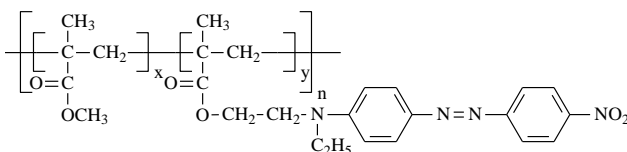
**SP-NLO-P-007**

Poly[(methylmethacrylate)-co-(Disperse Red 1 Acrylate)]  
[not identified]  
[(C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>)<sub>x</sub>(C<sub>19</sub>H<sub>20</sub>N<sub>4</sub>O<sub>4</sub>)<sub>y</sub>]<sub>n</sub>



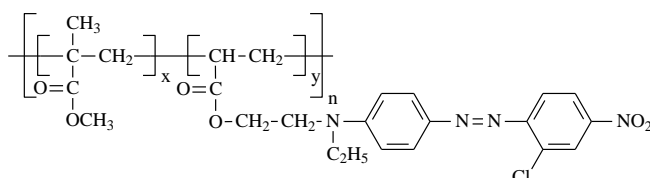
**SP-NLO-P-008**

Poly[(methylmethacrylate)-co-(Disperse Red 1 Methacrylate)]  
[not identified]  
[(C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>)<sub>x</sub>(C<sub>20</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub>)<sub>y</sub>]<sub>n</sub>



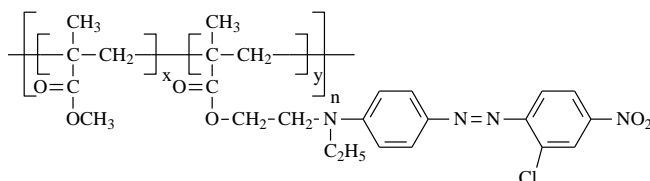
**SP-NLO-P-009**

Poly[(methylmethacrylate)-co-(Disperse Red 13 Acrylate)]  
[not identified]  
[(C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>)<sub>x</sub>(C<sub>18</sub>H<sub>19</sub>ClN<sub>4</sub>O<sub>4</sub>)<sub>y</sub>]<sub>n</sub>



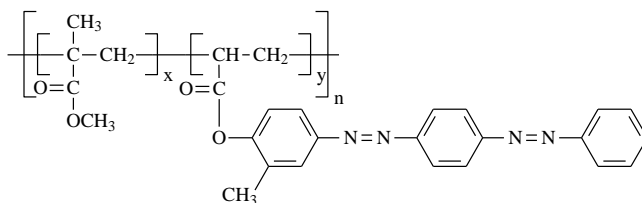
**SP-NLO-P-010**

Poly[(methylmethacrylate)-co-(Disperse Red 13 Methacrylate)]  
[not identified]  
[(C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>)<sub>x</sub>(C<sub>20</sub>H<sub>21</sub>ClN<sub>4</sub>O<sub>4</sub>)<sub>y</sub>]<sub>n</sub>



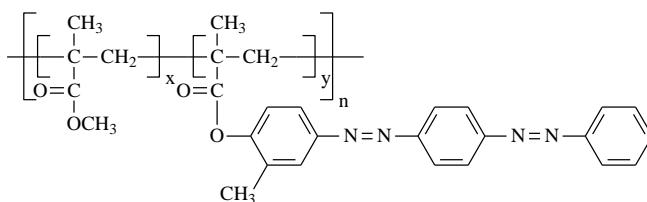
**SP-NLO-P-011**

Poly[(methylmethacrylate)-co-(Disperse yellow 7 Acrylate)]  
[not identified]  
[(C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>)<sub>x</sub>(C<sub>22</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>)<sub>y</sub>]<sub>n</sub>



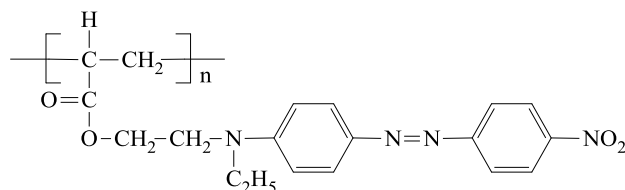
**SP-NLO-P-012**

Poly[(methylmethacrylate)-co-(Disperse yellow 7 Methacrylate)]  
[not identified]  
[(C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>)<sub>x</sub>(C<sub>23</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>)<sub>y</sub>]<sub>n</sub>



**SP-NLO-P-013**

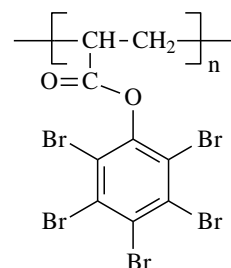
Poly(Disperse Red 1 acrylate)  
[13695-46-0]



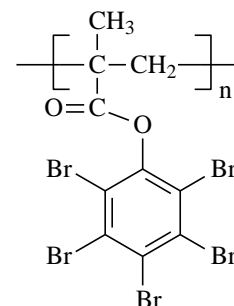


## HIGH REFRACTIVE INDEX POLYMERS

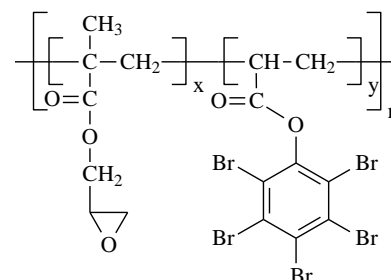
**SP-HRI-P-001** Poly[pentabromophenyl acrylate]  
[not identified]  
[C<sub>9</sub>H<sub>3</sub>Br<sub>5</sub>O<sub>2</sub>]<sub>n</sub>



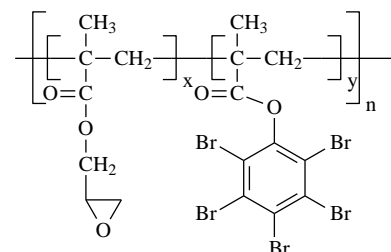
**SP-HRI-P-002** Poly[pentabromophenyl methacrylate]  
[not identified]  
[C<sub>10</sub>H<sub>5</sub>Br<sub>5</sub>O<sub>2</sub>]<sub>n</sub>



**SP-HRI-P-003** Poly[(glycidyl methacrylate)-co-(pentabromophenyl acrylate)]  
[not identified]  
[(C<sub>7</sub>H<sub>10</sub>O<sub>3</sub>)<sub>x</sub>(C<sub>9</sub>H<sub>3</sub>Br<sub>5</sub>O<sub>2</sub>)<sub>y</sub>]<sub>n</sub>

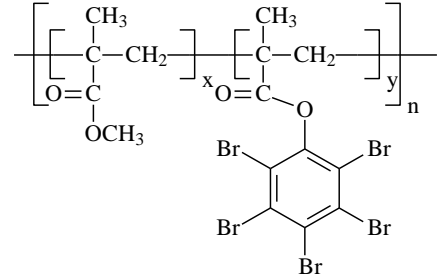


**SP-HRI-P-004** Poly[(glycidyl methacrylate)-co-(pentabromophenyl methacrylate)]  
[not identified]  
[(C<sub>7</sub>H<sub>10</sub>O<sub>3</sub>)<sub>x</sub>(C<sub>10</sub>H<sub>5</sub>Br<sub>5</sub>O<sub>2</sub>)<sub>y</sub>]<sub>n</sub>



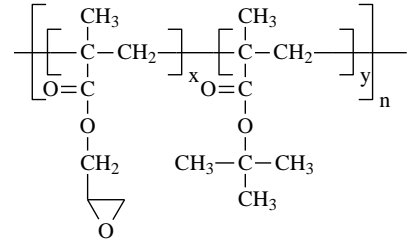


**SP-HRI-P-005** PMMA-co-(pentabromophenyl methacrylate)  
[not identified]

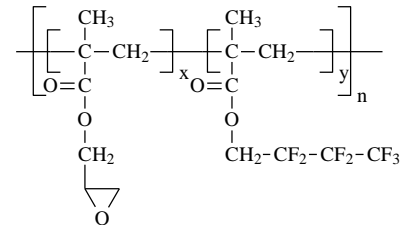


## LOW REFRACTIVE INDEX POLYMERS

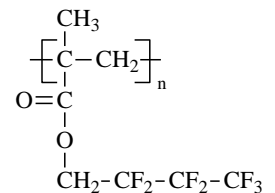
**SP-LRI-P-001** Poly[(glycidyl methacrylate)-co-(tert-butyl methacrylate)]  
[70939-77-4]  
[(C<sub>7</sub>H<sub>10</sub>O<sub>3</sub>)<sub>x</sub>(C<sub>8</sub>H<sub>14</sub>O<sub>2</sub>)<sub>y</sub>]<sub>n</sub>



**SP-LRI-P-002** Poly[(glycidyl methacrylate)-co-(2,2,3,3,4,4,4-heptafluorobutyl methacrylate)]  
[not identified]  
[(C<sub>7</sub>H<sub>10</sub>O<sub>3</sub>)<sub>x</sub>(C<sub>8</sub>H<sub>7</sub>F<sub>7</sub>O<sub>2</sub>)<sub>y</sub>]<sub>n</sub>



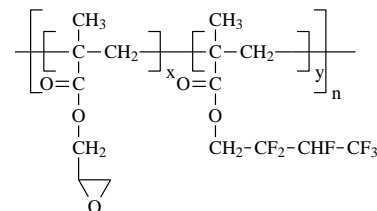
**SP-LRI-P-003** Poly[2,2,3,3,4,4,4-heptafluorobutyl methacrylate]  
[not identified]  
[C<sub>8</sub>H<sub>7</sub>F<sub>7</sub>O<sub>2</sub>]<sub>n</sub>





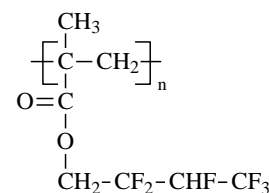
**SP-LRI-P-004**

Poly[(glycidyl methacrylate)-co-(2,2,3,4,4,4-hexafluorobutyl methacrylate)]  
*[not identified]*  
 $[(C_7H_{10}O_3)_x(C_8H_8F_6O_2)_y]_n$



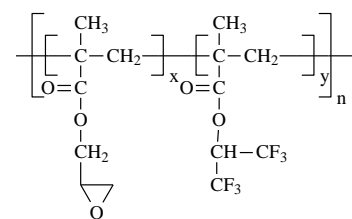
**SP-LRI-P-005**

Poly[2,2,3,4,4,4-hexafluorobutyl methacrylate]  
 $[64376-86-9]$   
 $[C_8H_8F_6O_2]_n$



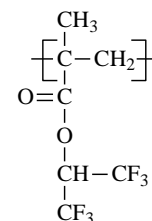
**SP-LRI-P-006**

Poly[(glycidyl methacrylate)-co-(1,1,1,3,3,3-hexafluoroisopropyl methacrylate)]  
*[not identified]*  
 $[(C_7H_{10}O_3)_x(C_7H_6F_6O_2)_y]_n$



**SP-LRI-P-007**

Poly[1,1,1,3,3,3-hexafluoroisopropyl methacrylate]  
*[not identified]*  
 $[(C_7H_6F_6O_2)]_n$

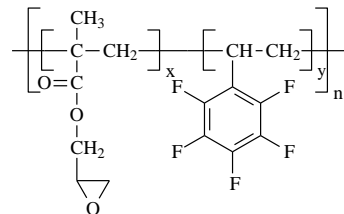






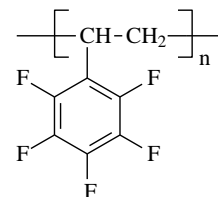
**SP-LRI-P-008**

Poly[(glycidyl methacrylate)-co-(pentafluorostyrene)]  
[not identified]  
[(C<sub>7</sub>H<sub>10</sub>O<sub>3</sub>)<sub>x</sub>(C<sub>8</sub>H<sub>3</sub>F<sub>5</sub>)<sub>y</sub>]<sub>n</sub>



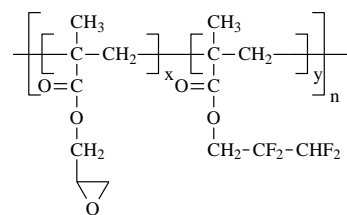
**SP-LRI-P-009**

Poly[pentafluorostyrene]  
[26838-55-1]  
[C<sub>8</sub>H<sub>3</sub>F<sub>5</sub>]<sub>n</sub>



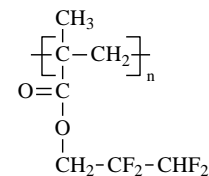
**SP-LRI-P-010**

Poly[(glycidyl methacrylate)-co-(2,2,3,3-tetrafluoropropyl methacrylate)]  
[not identified]  
[(C<sub>7</sub>H<sub>10</sub>O<sub>3</sub>)<sub>x</sub>(C<sub>7</sub>H<sub>8</sub>F<sub>4</sub>O<sub>2</sub>)<sub>y</sub>]<sub>n</sub>



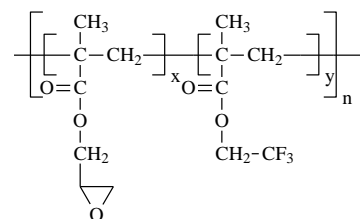
**SP-LRI-P-011**

Poly[2,2,3,3-tetrafluoropropyl methacrylate]  
[not identified]  
[(C<sub>7</sub>H<sub>8</sub>F<sub>4</sub>O<sub>2</sub>)]<sub>n</sub>



**SP-LRI-P-012**

Poly[(glycidyl methacrylate)-co-(2,2,2-trifluoroethyl methacrylate)]  
[not identified]  
[(C<sub>7</sub>H<sub>10</sub>O<sub>3</sub>)<sub>x</sub>(C<sub>6</sub>H<sub>7</sub>F<sub>3</sub>O<sub>2</sub>)<sub>y</sub>]<sub>n</sub>





<b>SP-LRI-P-013</b>	Poly[2,2,2-trifluoroethyl methacrylate] [54802-79-8] [(C <sub>6</sub> H <sub>7</sub> F <sub>3</sub> O <sub>2</sub> )] <sub>n</sub>	$\left[ \begin{array}{c} \text{CH}_3 \\   \\ \text{---C---CH}_2 \\   \\ \text{O=C} \\   \\ \text{O} \\   \\ \text{CH}_2\text{-CF}_3 \end{array} \right]_n$
<b>SP-LRI-P-014</b>	Poly[tridecafluorononyl methacrylate] [not identified] [(C <sub>13</sub> H <sub>9</sub> F <sub>15</sub> O <sub>2</sub> )] <sub>n</sub>	$\left[ \begin{array}{c} \text{CH}_3 \\   \\ \text{---C---CH}_2 \\   \\ \text{O=C} \\   \\ \text{O} \\   \\ \text{C}_2\text{H}_4\text{-C}_7\text{F}_{15} \end{array} \right]_n$
<b>SP-LRI-P-015</b>	MMA co C <sub>6</sub> F <sub>12</sub> H MA [Not Identified] M <sub>n</sub> , x, y on request	$\left[ \left( \begin{array}{c} \text{CH}_3 \\   \\ \text{---CH}_2\text{-C---} \\   \\ \text{O=C} \\   \\ \text{OCH}_3 \end{array} \right)_x \left( \begin{array}{c} \text{CH}_3 \\   \\ \text{---CH}_2\text{-C---} \\   \\ \text{O=C} \\   \\ \text{O} \\   \\ \text{C}_5\text{F}_{10}\text{CF}_2\text{H} \end{array} \right)_y \right]_n$

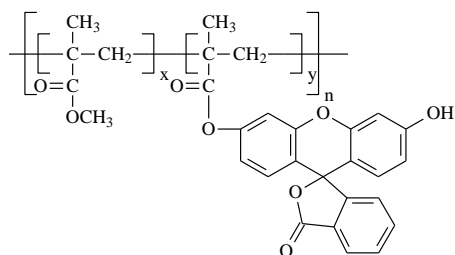


## FLUORESCENT POLYMERS

**SP-FLUO-P-001**

Poly[(methylmethacrylate)-co-  
(Fluorescein O-Methacrylate)]  
[not identified]

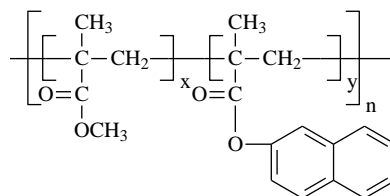
$[(C_5H_8O_2)_x(C_{24}H_{16}O_6)_y]_n$



**SP-FLUO-P-002**

Poly[(methylmethacrylate)-co-  
(naphthyl methacrylate)]  
[not identified]

$[(C_5H_8O_2)_x(C_{14}H_{12}O_2)_y]_n$



**SP-FLUO-P-003**

Poly[(glycidyl methacrylate)-co-  
(naphthyl methacrylate)]  
[not identified]

$[(C_7H_{10}O_3)_x(C_{14}H_{12}O_2)_y]_n$

